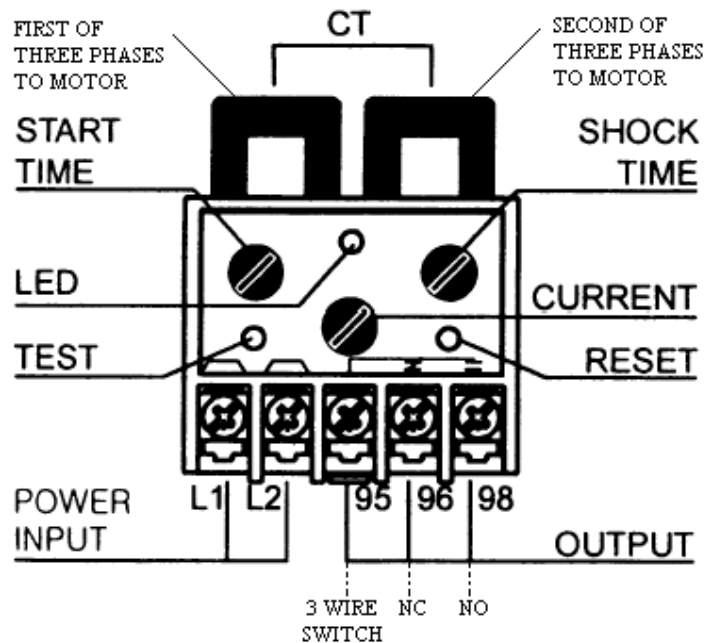


## 4. Drive Overload – Shock Relay

The shock relay is mounted in the system control panel and is used to monitor the motor current and indicate when a motor overload has been detected. If the overload lasts for longer than a preset amount of time, the shock relay will act as an electric shear pin and interrupt the supply of power to the motor.



### Note:

If the shock-relay trips, investigate to determine the cause and correct the issue prior to restarting the conveyor.

### Set-Up:

- 1) Set the start delay timer (START TIME) to the known motor run-up time (20 - 30 sec).
- 2) Set the trip delay timer (SHOCK TIME) to the desired trip time. (8 - 10 sec).
- 3) Set the load current (CURRENT) at the rated full load or 25% above the normal operating amperage.
- 4) Test the unit by holding the TEST button depressed. Verify that the red LED illuminates and the internal relay should switch contacts after the sum of the start time and shock time. Once verified, reset by depressing the RESET button.
- 5) Start the equipment and notice the run-up time. Then slowly turn the CURRENT knob counter clock-wise until the LED flashes. This indicates 100% of the load current. Set the CURRENT knob to the desired trip setting. A setting of 110% of the running current is commonly used.
- 6) Reset the START TIME knob to match the normal run-up time.

\*Periodic testing by using the TEST button is suggested to ensure the full protection through preventive maintenance.